

780 nm Singlefrequency DFB laser diode

30 mW / singlemode fiber / butterfly package

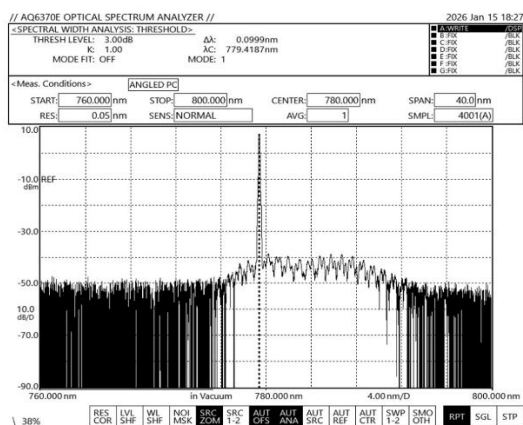


Reference: 780LD-1-SM/PM-NI

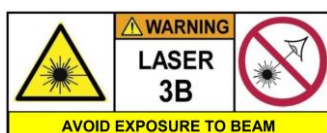
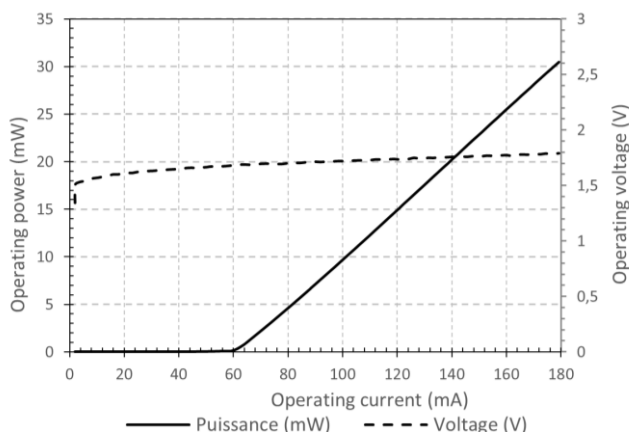
Technology: Single frequency DFB

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	mW	30	40	
Technology		DFB		
Center Wavelength	nm	779	780*	781
	*Tunable to Rb-D2 (780.24nm in vacuum) by adjusting the chip (TEC) temperature			
Spectral Width (FWHM) /	kHz		200	
Threshold Current	mA		20	80
Operating Current	mA		150	200
Operating Voltage	V		2.0	2.5
Wavelength shift w Temperature	nm/°C		0.04	
Wavelength shift w Current	nm/A		1.0	
Side mode suppression ratio	dB	40	50	
Internal photodiode responsivity	mA/W	0.04	3	10
Internal photodiode dark current	nA		5	40
TEC current (abs max rating)	A			3
TEC voltage (abs max rating)	V			4
Internal thermistor (25°)	kOhm	9.5	10	10.5
Fiber type (OPTION 1: PM fiber)	Hi780 or equivalent (PM780 or equivalent)			
PER	dB		18	
Fiber bend radius	mm	25		
Fiber connector	Yes (FC/APC)			
Storage temperature	°C	-40		85
Operating case temperature	°C	-20		70
Operating chip temperature	°C	20		40
Laser diode reverse voltage (absolute maximum rating)	V			2
Internal isolator	No			

Emission spectrum & LIV @ 20°C

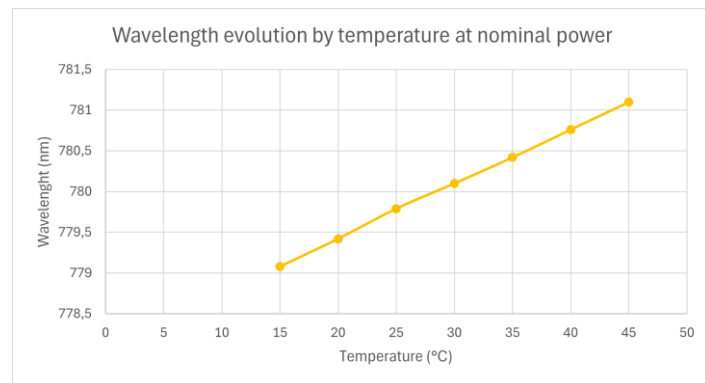
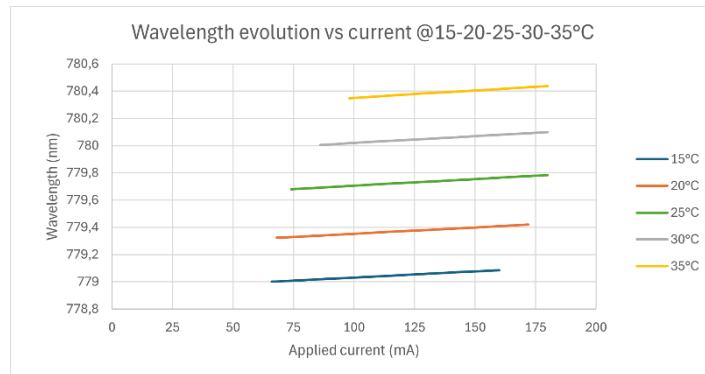


Spectrum linewidth limited by the OSA resolution



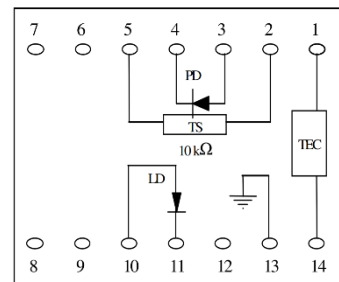
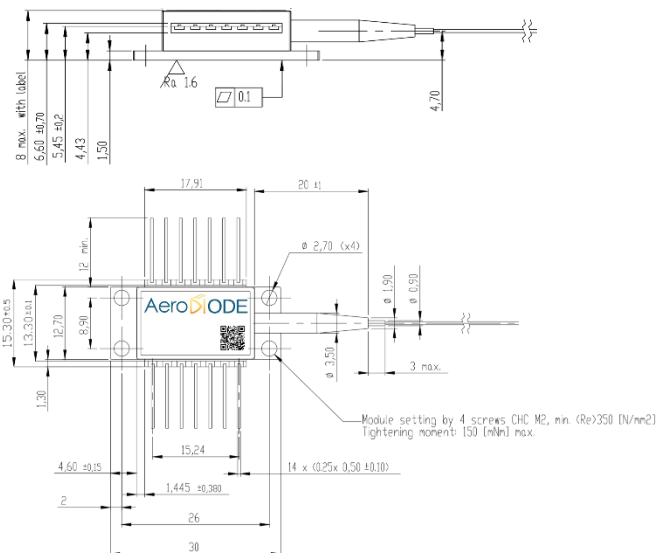
Laser diodes are classified based on continuous operation - Contact us for any special requests regarding classification or power limitation.

Example of wavelength variation with current and temperature*



*Contact AeroDIODE for specific wavelength requirements.

Form factor:



Totally floating pin-out



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